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(12) United States Patent Myers

(54) GOLF CLUB HEAD WITH ADJUSTABLE WEIGHT BAR

(71) Applicant: CALLAWAY GOLF COMPANY,

Carlsbad, CA (US)

(72) Inventor: Matthew Myers, Carlsbad, CA (US)

(73) Assignee: Callaway Golf Company, Carlsbad,

CA (US)

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patent is extended or adjusted under 35

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This patent is subject to a terminal dis-

claimer.

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(58) Field of Classification Search

(56) References Cited

U.S. PATENT DOCUMENTS

| 8,016,694 | B2* | 9/2011 | Llewellyn | | |
|-------------|-----|--------|-----------|--|--------------------|
| 8,192,303 | B2* | 6/2012 | Ban | | 473/334 53/0466 |
| , , | | | | | 473/335 |
| (Continued) | | | | | |

FOREIGN PATENT DOCUMENTS

TW GB 2327889 A * 2/1999 A63B 53/04

Primary Examiner — Benjamin Layno (74) Attorney, Agent, or Firm — Rebecca Hanovice; Michael Cantania; Sonia Lari

(57) ABSTRACT

A golf club head with means for adjusting a center of gravity along more than one axis is disclosed herein. The golf club head comprises at least one rectangular weight bar disposed within a recessed region on the sole and adjustable within the recessed region. One end of the weight bar is reversibly fixed to the sole with a connection element, while the other end includes an engagement feature that engages a retention feature at the edge of the recessed region. The retention feature provides multiple locations at the edge of the recessed region to which the engagement feature can be fixed, and when the weight bar is in a configuration desired by a golfer, the weight bar can be reversibly secured to the sole and immobilized within the recessed region by tightening the connection element. The weight bar may also include a slidable weight assembly.

20 Claims, 6 Drawing Sheets

